

**Table 1 Mutation profile**

Cell line	Gene	Mutation ratio			Type of mutation				
		Mutation events	Total bp sequenced	Frequency: mutation/bp (x 10 <sup>-3</sup> )	Mutated sequences /total	Point mutation (non-templated)	Gene conversion	Deletion	Insertion
<b>AID<sup>R</sup> ψV<sup>-</sup></b>	VJ	135	45220	2,99	70 / 95 ( 73,7% )	133	-	2	0
	Bu-1	1	47500	0,02	1 / 95 ( 1,1% )	0	-	1	0
	EF1α	2	42720	0,05	2 / 89 ( 2,2% )	2	-	0	0
VJC (cDNA) from sorted IgM	(-)	245	80276	3,05	87 / 94 ( 92,6% )	239	-	5	1
	VJ	0	45220	0,00	0 / 95 ( 0,0% )	0	-	0	0
<b>AID<sup>R</sup> ψV<sup>par</sup></b>	VJ	110	46354	2,37	65 / 98 ( 66,3% )	87 (80)	18	4	1
<b>AID<sup>-/-</sup> ψV<sup>pa</sup></b>	VJ	3	43516	0,07	3 / 92 ( 3,3% )	3	0	0	0
<b>AID<sup>R</sup></b>	VJ	112	25960	4,31	55 / 55 ( ##### )	39 (9)	72	1	0
<b>AID<sup>-/-</sup></b>	VJ	3	39732	0,08	3 / 84 ( 3,6% )	3	0	0	0
<b>XRCC3<sup>-/-</sup></b>	VJ	56	44462	1,26	38 / 94 ( 40,4% )	55 (40)	1	0	0

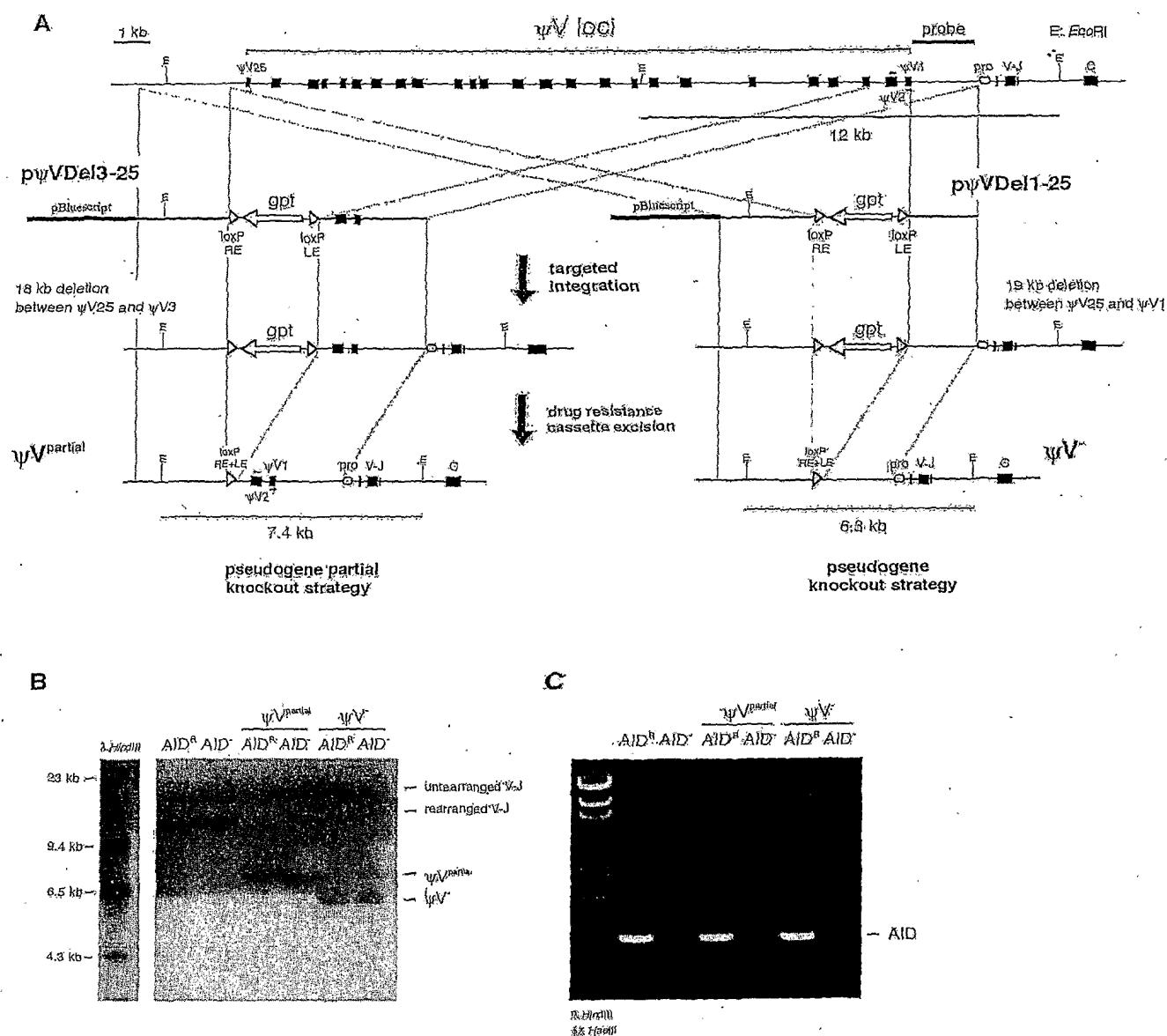
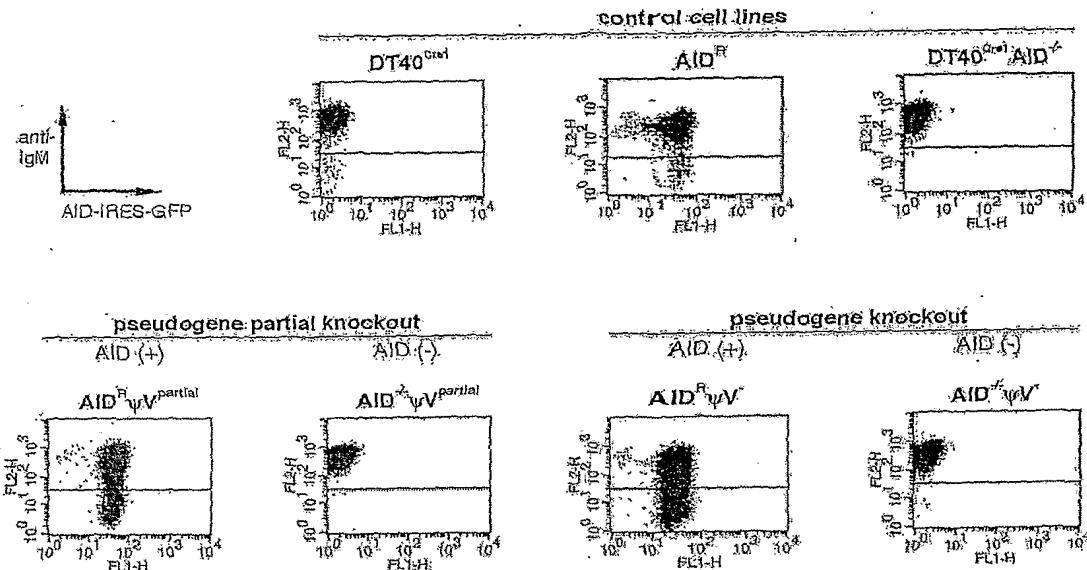
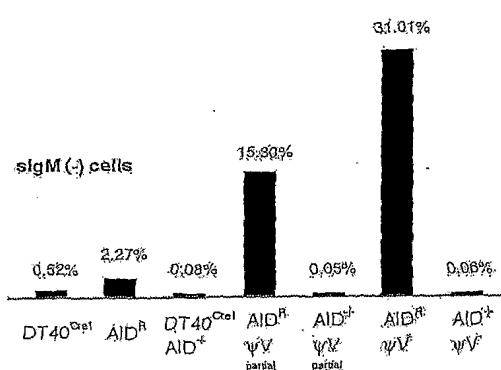


Figure 1

**A****B****Figure 2**

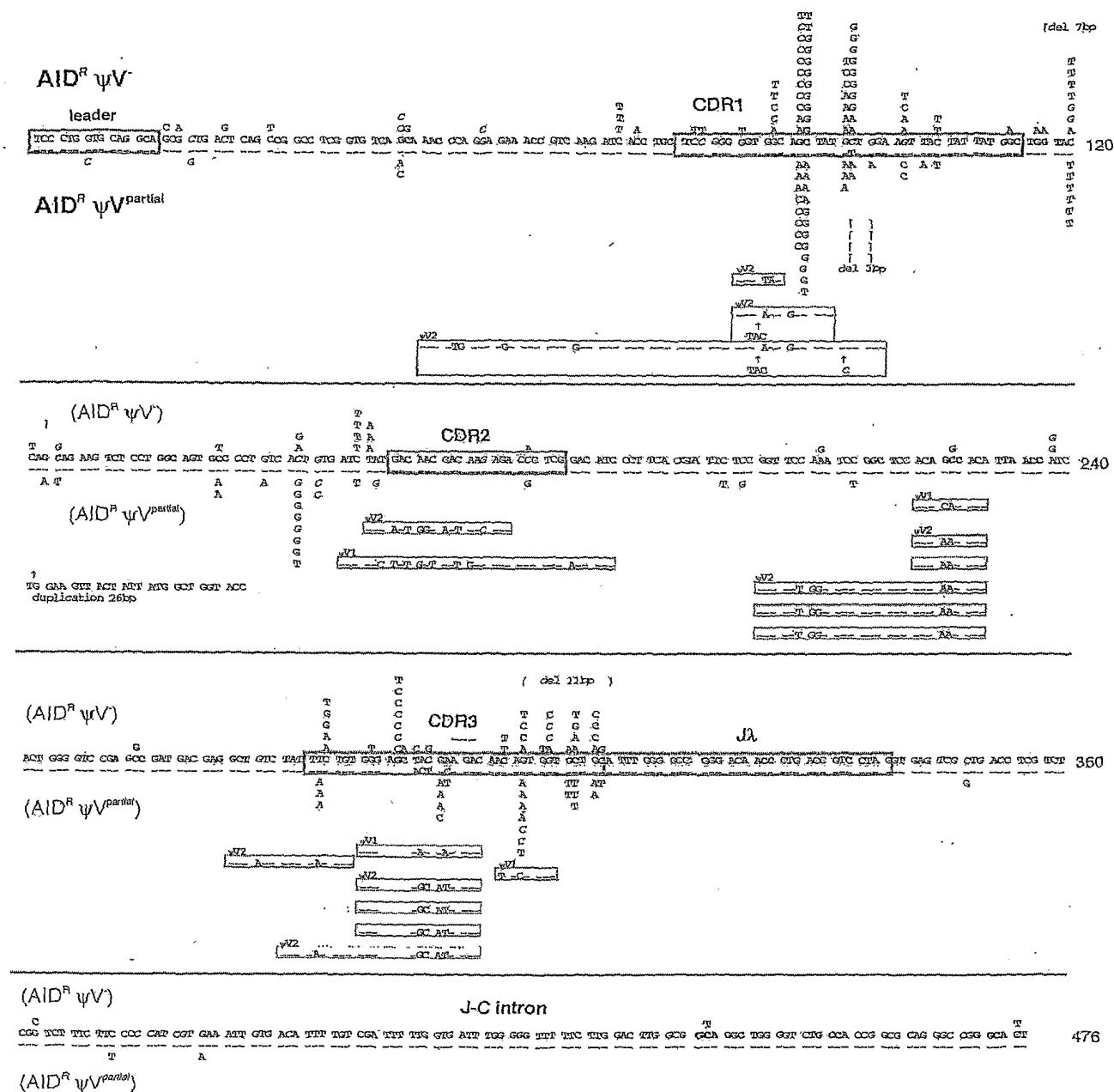


Figure 3

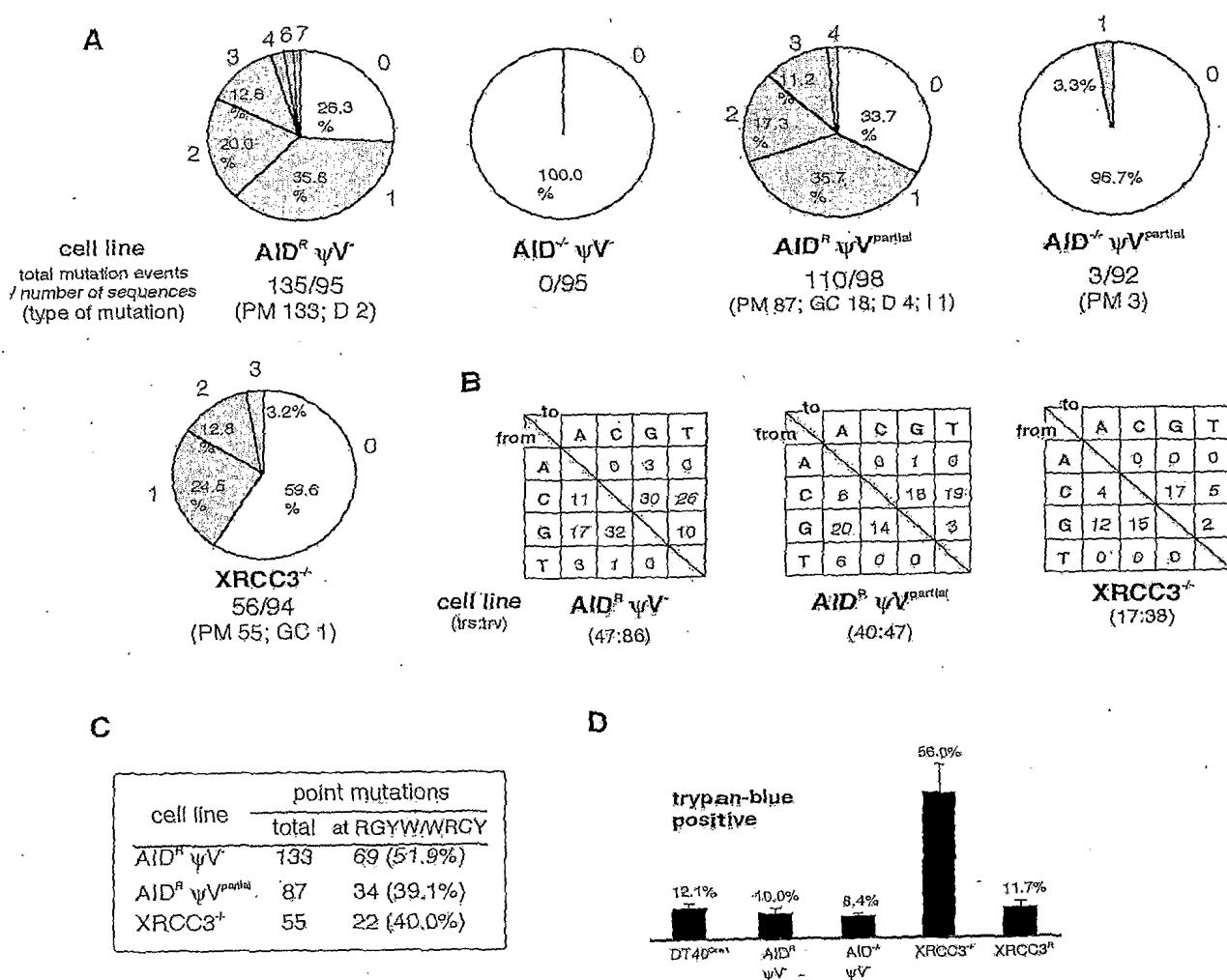


Figure 4

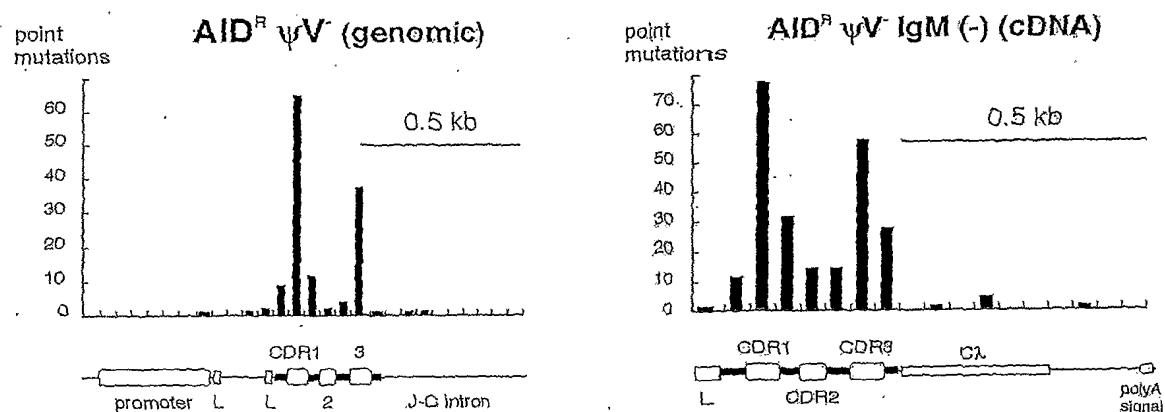


Figure 5

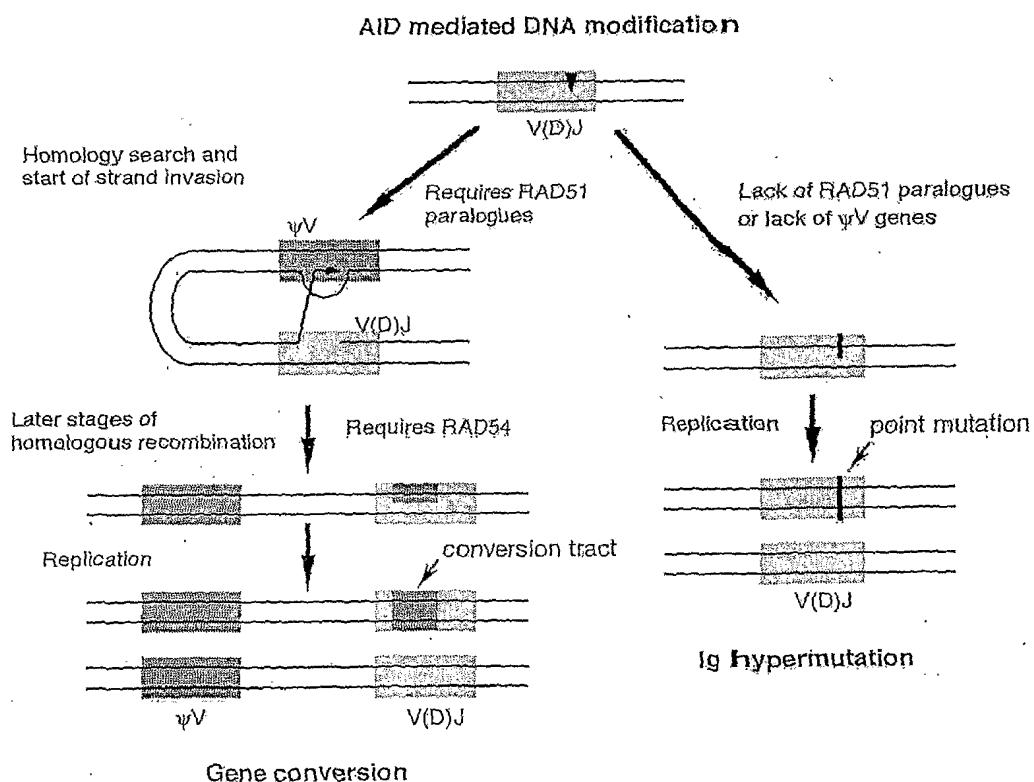


Figure 6

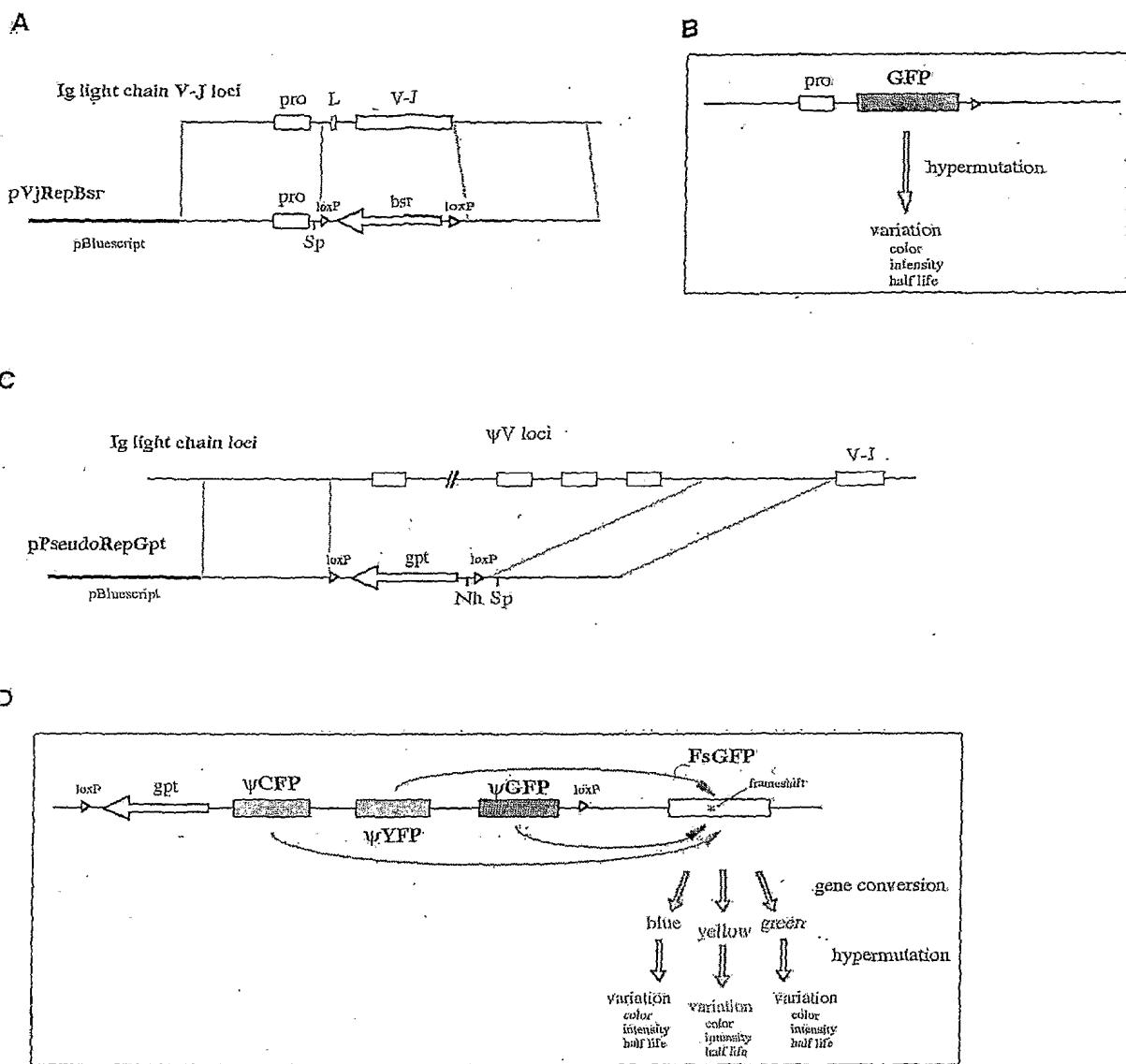


Figure 7